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DISCOVERIES AND CURRENT EVENTS *

SWITZERLAND.

The Colorado Beetle (*Leptinotarsa decemlineata*) in French Switzerland †

Situation on July 1, 1943.

The very cold and rainy weather at the beginning and in the middle of June partly retarded the development of the Colorado beetles. From June 20, however, warm and sunny days returned to stimulate breeding of the parasite. The variations in temperature appear to have caused appreciable differences in the growth of the larvae from one region to another; while towards June 8-12, here and there large larvae ready to burrow into the ground were already found, in other regions, oviposition and the appearance of the first larvae were delayed until the middle of the month.

The following data and information from the cantons will give a clearer idea of these regional differences.

Genève. All the communes are more or less invaded and infestation is more widespread than in 1942. At Aire, La Praille, the Plaine de l'Aire and near Dardagny, the evolution of the parasites was particularly rapid and larvae, having reached the final stage of development, had burrowed into the soil relatively early.

Vaud. Everywhere the intensity of invasion is greater than that registered in 1942; development, however, is irregular. In the district of Nyon and all along Lake Lemman, large larvae have been found since the first week of June. In other regions of the plain, only adult insects, eggs and small larvae were reported, though here and there, in the Plaine de l'Orbe, the valley of the Broye and the Plaine du Rhône, the Colorado beetle bred in rather a disquieting manner. In the Joux Valley, in mid June, when the potatoes were just beginning to send up shoots, some insects were found.

Neuchâtel. Some communes of the districts of Neuchâtel and Boudry were invaded early and are fairly heavily infested with larvae of different sizes. In Val de Travers development was later and the first eggs were only reported on June 14. In the higher lying valleys, Val de Ruz, Chaux de Fonds and the Locle, the insects remained few in number and isolated.

* Under this and the next heading the countries are arranged in French alphabetical order.

† Communication from the Federal Experiment and Seed Testing Station, Lausanne (Mont Calme), Switzerland.

Bernese Jura. Colorado beetles were found in all the communes. On the flat, hatching was very irregular and very large foci are fairly rare; invasion remains scattered and the larvae are few in number. In the mountainous regions, from the middle of June only a few instances of perfect insects and of oviposition of little importance have been reported.

Fribourg. The most severely invaded districts are those of the Broye and the Lake, where some communes already reported large larvae in the week June 10-16. At this period, in the Singine, only several foci of perfect insects were to be found. At the end of the month, 79 communes were contaminated; but the districts of the Glâne, Gruyère and Veveyse are still as yet but lightly attacked.

Valais. Invasion was particularly severe in the districts of Monthey and St Maurice, chiefly near Monthey, Collombey-Muraz and Massongex, higher up in the Rhône Valley, only 2 communes were invaded: Martigny with one breeding centre and Vétroz with three.

In French Switzerland, the situation on July 1 may be summed up as follows:—

	Communes attacked	Number of foci
Genève	45	widespread
Vaud	314	»
Neuchâtel	40	»
Bernese Jura	146	»
Fribourg	79	3145 + w.
Valais	10	80 + w.

For the rest of Switzerland, the following figures were given by the Federal Experiment Station of Zurich-Oerlikon:—

	Communes attacked	Number of foci
Bern	115	1764
Solothurn	59	27450
Basel	47	1103 + w.
Argau	11	1480
Luzern	34	152
Zürich	41	104
Schaffhausen	9	23
Thurgau	4	5
Zug	—	—
Schwyz	9	21
Unterwald	3	17
Uri	1	1
Glarus	4	4
Appenzell	—	—
St Gallen	8	32
Graubünden	—	—
Ticino	1	23

(+ w. = widespread in some communes).

It is noted that all along the Jura it is increasingly difficult to recognize distinct 'foci' and that the invasion is becoming ever more widespread. Three cantons are untouched: Zug, Appenzell and Graubünden. The chief occurrence is the invasion of Ticino where numerous foci were discovered in the Magadine Plain. According to a report of the Oerlikon Federal Station and the cantonal Station of Mezzana, the first breeding centre was discovered on June 10 near Giubasco; it seems, however, in view of the spread of the scourge, that Colorado beetles had already attacked Ticino last year, but had passed unobserved. Control operations were immediately organized.

In French Switzerland, all measures for supervision and destruction were taken in due time. Inspection visits to the potato-fields by school children took place between June 7 and 26 according to region and, as usual, proved very useful in destroying several small foci and in reporting heavily infested fields.

Compulsory treatment had been ordered in the cantons to begin on June 10 or 15, but had to be effected earlier in certain regions more severely invaded. In other regions, operations were slightly delayed owing to the rainy period during the middle of the month, but were subsequently carried out with regularity and efficacy. Some remaining stock of diplumbic arsenate was again employed here and there, but it was calcium arsenate which was more generally distributed. Gésarol has now been employed on a large scale in several fields and proved very efficacious in that it destroyed the perfect insects as well as the larvae.

In brief, up to the present, invasion is only severe in the regions which were already heavily attacked last year; but wherever the fields are well watched, foci reported in time and treatments applied conscientiously, the damage will be small.

LEGISLATIVE AND ADMINISTRATIVE MEASURES

Germany (Protectorate of Bohemia and Moravia). — By Decree No. 79 of March 11, 1943, the Decree relative to the protection of fruit and viticultural crops dated June 15, 1931 and modified by Decree of February 29, 1940 [see this *Bulletin* 1940, No. 11, p. 214] is amended by a list, recently drawn up, of the plant and animal agents which, according to the aforesaid Decrees, are recognized as injurious. These agents are indicated by their scientific denomination (Latin) together with the German and Czech names. (*Sammlung der Gesetze und Verordnungen des Protektorates Böhmen und Mähren*, Prag, 30. März 1943, 40. Stück, S. 309-311).

* * By Notification No. 82 of March 1, 1943 the proprietors of forests are required to disbark the trunks of felled conifers when the forest authorities will so request and within the period which the said authorities will fix. (*Ibid.*, S. 314).

Italy. — By Ministerial Decree of July 9, 1943 the wild rabbit is classed among the animal pests in the 'Porta Lupia' game preserve of the Province of Pavia. (*Gazzetta Ufficiale del Regno d'Italia*, Roma, 16 luglio 1943, anno 84°, n. 163, p. 2444)

* * By Ministerial Decree dated July 11, 1943, the territory of the commune of Vignanello, Province of Viterbo, has been declared attacked by grape phyloxera*.

* * The Ministerial Decree of August 24, 1943 includes the wild rabbit among the animal pests in the territory of the commune of Isola del Giglio, Grosseto Province. (*Gazzetta Ufficiale del Regno d'Italia*, Roma, 1° settembre 1943, anno 84°, n. 203, p. 2737).

Switzerland. — The Plant Protection Section of the Federal Experiment Institution for Fruit-growing, Viticulture and Horticulture of Wädenswil has published a list of the parasiticial preparations tested and controlled during the period March-May, 1943. (*Schweizerische Zeitschrift für Obst- und Weinbau*, Wädenswil 1943, 52. Jahrg., Nr. 13, S. 364-365).

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[Written for students attending agricultural schools and for farmers, this pocket handbook, now in its fourth edition, is intended to furnish the reader with those elements indispensable for recognizing the principal plant and animal agents injurious to crops, and to indicate in each case the means of controlling them.

After a general survey of the subject, the author then deals with the diseases of non-parasitic origin; successively, he treats on plant parasites and then on animal pests. In the appendix is given a synoptic list of the causes of diseases according to symptoms].

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In the six chapters are examined one after the other, the different problems relating to the production of plant breeds resistant principally to cryptogamic diseases. The simple and at the same time rigorously scientific exposition of the different questions treated enables even the layman to form a precise idea of the practical importance of this economical means of controlling plant diseases.]
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